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Recent Proceedings of Societies.

Naturalists' field-club of Johns Hopkins university, Baltimore.

Nov. 25. — Dr. J. P. McMurrich reported on the work of the zoölogical section. A cruise was made down the harbor, and some interesting marine forms taken by the tow-net, including *Evadne*, a cladoceran, and a peculiar copepod. — Mr. W. S. Bailey spoke of the progress made toward completing the geological map of Baltimore, and mentioned the following minerals recently found in the vicinity: malachite and chalcedony (Bare Hills), amethyst (Elysville and Owing's Mills), kyanite and fibrolite in mica schists, on the road between Reisterstown pike and Garrison's lane. — Mr. F. H. Herrick gave the results of observations made this month (Nov. 14-21) on the vitality of plants as exhibited by their persistence in producing flowers. Within the time mentioned forty-six species of plants were found in flower in the neighborhood of Baltimore. Of these, eighteen belong to the order of Compositae, and twenty, or one-half, are weeds introduced from Europe. The latter were usually the freshest, and produced flowers and fruit in greatest abundance. Of the non-introduced plants, single specimens were commonly found, and those often small or withering. Leaving the latter out of consideration, the late-flowering of the introduced species is readily accounted for. Many of them are perennial in the milder climate of Europe, and consequently, when brought to this country, strive to produce flowers and fruit the year round. *Stellaria media*, the common chickweed, is a type of this class, and is virtually in flower the whole year. The snow covers in fall its buds and flowers, which expand as soon as the ice melts from around them in spring. This plant was dug from under two feet of snow in mid-winter in Vermont, and, after being placed in water a few hours, its flowers were fully expanded. This explains its phenomenally early appearance in blossom in spring. — The dispersion of seeds was illustrated by the pods of *Cassia nictitans* and the 'button-balls' of *Platanus occidentalis*. The latter tree produces on the average a thousand seeds to each ball, and therefore, in some cases, many millions of seeds; yet it is far from abundant in this and other localities. The oak, which produces relatively so much less seed, is the prevailing tree in this region. The sycamore belongs to an ancient type, the same genus being found among the fossils of the Laramie group. The conditions for its abundant growth are apparently less favorable than formerly. — Dr. Barton spoke of the bursting of the pods of the *Wistaria*, comparing the sound produced to a pistol-report.

Calendar of Societies.

Philosophical society, Washington.

Dec. 5. — Annual address by the president, Asaph Hall; subject, American scientific societies.

Dec. 19. — The following officers were elected for 1886: President, J. S. Billings; vice-presidents, William Harkness, Garrick Mallery, C. E. Dutton, J. E. Hilgard; treasurer, Robert Fletcher; secretaries, G. K. Gilbert, Marcus Baker; members at large of

the general committee, H. H. Bates, F. W. Clarke, W. H. Dall, J. R. Eastman, Henry Farquhar, G. B. Goode, T. C. Mendenhall, H. M. Paul, C. V. Riley.

Anthropological society, Washington.

Dec. 1. — C. F. Adams, The omitted factor in the promotion of the public good.

Dec. 15. — Discussion on the distribution of wealth.

Biological society, Washington.

Dec. 12. — J. M. Flint, U. S. N., Exhibition of representative specimens of Foraminifera from the dredgings of the U. S. fish-commission steamer *Albatross*; Romyn Hitchcock, The red snow; W. S. Barnard, Digestion, environmental, etc.; C. V. Riley, The mildews of the grape-vine; C. Hart Merriam, Description of a new sub species of the common eastern chipmunk (*Tamias striatus*).

Engineers' club, Philadelphia.

Dec. 5. — C. W. Buchholz, Engineering, its achievements and its reward.

Connecticut academy of arts and sciences.

Dec. 16. — C. S. Hastings, Some recent determinations of the velocity of light; Leonard Waldo, Description of an electric smelting-furnace.

American academy of arts and sciences, Boston.

Dec. 9. — William A. Rogers and Austin L. McRae, Experiments upon the determination of the temperature of metals as a function of their mass.

Boston society of natural history.

Dec. 2. — Frank H. Cushing, An Indian naturalist, or some Zuñi conceptions of animal and plant life; S. H. Scudder, Some recent important discoveries among the oldest fossil insects.

Dec. 16. — W. O. Crosby, Notes on joint-structure.

Society of arts, Boston.

Dec. 10. — Lieut. F. G. Sprague, Application of an electrical system of propulsion on elevated railroads.

Dec. 23. — Lieut. E. L. Zalinski, U. S. A., The pneumatic dynamite gun, and the use of high explosives in warfare.

Appalachian mountain club, Boston.

Dec. 11. — E. C. Pickering, Geodetic observations from Moosilauke and Mansfield; Alford A. Butler, The Tripyramid slides of 1885; A. L. Goodrich, Notes on the region east of Wild River and south of the Androscoggin.

Society of natural history, Cincinnati.

Dec. 1. — J. Ralston Skinner, Measure of the mound-builders; Joseph F. James, A new species of *Gomphoceras* from the Trenton group of Wisconsin; A. P. Morgan, The Polypore of the Miami valley; T. H. Aldrich, Tertiary fossils of Alabama.

Kansas academy of science.

Nov. 10, annual meeting. — F. H. Snow, A fossil bird-track in the Dakota sandstone; Robert Hay, A geological section down Fall River; R. J. Brown, Natural gas; F. W. Cragin, A foraminiferous limestone that admits of a polish like marble; The natural history of Barber county; A. H. Thompson, The relation of the state geological survey to the national survey; J. T. Lovewell, Studies on the rainfall of the state, showing no sensible increase;

E. L. Nichols and W. S. Franklin, The destruction of the passivity of iron by magnetic action; Lissajou's figures in three dimensions; B. B. Smyth, Harmonic forms; J. V. Willard and G. H. Failyer, Extraction apparatus to extract fat and similar substances; Sidersky's method of separating calcium from strontium; J. T. Willard, Comparative sweet-ness of cane sugar and invert sugar; E. H. S. Bailey, Bromide of sodium in the water of an artesian well at Independence; E. C. Franklin and E. H. S. Bailey, Comparative bitterness of different substances; L. E. Sayre, Digestive ferments; D. E. Lautz, Kansas birds; Warren Knaus, Kansas Coleoptera; A beetle that infests and destroys evergreen trees; D. E. Leutz, Great crested fly-catcher and the blue grosbeak; Warren Knaus, Ice-worm; Mrs. N. S. Kedzie, Science in the kitchen; W. A. Kellerman, Methods of collecting and classifying fungi; E. A. Papenoe, Kansas Orthoptera and Hemiptera; J. D. Parker, Wind, temperature, elevation and situation in determining rainfall.

Publications received at Editor's Office, Dec. 14-19.

Abbot, F. E. Scientific theism. Boston, Little, Brown & Co., 1885. 23+219 p. 16°.

Astor, W. W. Valentino: an historical romance of the sixteenth century in Italy. New York, Scribner, 1885. 8+325 p. 12°. \$2.

Dall, C. H., Mrs. What we really know about Shakespeare. Boston, Roberts, 1886 [1885]. 204 p. 12°. \$1.25.

Dujardin-Beaumetz, Dr. Les nouvelles médications. Paris, Doin, 1886 [1885]. 8+191 p., illustr. 8°. (New York, Christern, \$2.)

Gately, C. L., and Kletzsch, A. P. Cylinder condensation in steam engines. An experimental investigation. Philadelphia, Town, Inst., 1886 [1885]. 70+2 p., illustr. 8°.

Genth, F. A. Notes to mineralogy. Philadelphia, Amer. philos. soc., 1885. [18] p. 8°.

Genth, F. A., and Rath, G. vom. Ueber vanadate und jod-silber von Lake Valley, Sierra county, New Mexico. Leipzig, Engelmann, 1885. [3] p., pl. 8°.

Geography, The eclectic elementary. Cincinnati, Van Antwerp, Bragg & Co., [1885]. 82 p., illustr. 8°.

Marcel, G. Cartographie de la nouvelle France supplément à l'ouvrage de M. Harrisse publié avec des documents inédits. Paris, Maisonneuve, 1885. 41 p. 8°. (New York, Christern, \$1.)

Marçet, A. Le maroc voyage d'une mission française à la cour du sultan. 2d ed. Paris, Plon, 1886 [1885]. 8+298 p., 11 pl. 16°. (New York, Christern, \$1.35.)

Memorial technique universel. Paris, Le Soudier, [1885]. 421 p., illustr. 48°. (New York, Christern, \$2.20.)

Meylert, A. P. Notes on the opium habit. 4th ed. New York, Putnam, 1885. 8+49 p. 16°.

Morse, E. S. Japanese homes and their surroundings. Boston, Ticknor, 1886 [1885]. 34+372 p., illustr. 8°. \$5.

Nourrisson. Tableau des progrès de la pensée humaine depuis Thales jusqu'à Hegel. 6th ed. Paris, Perrin, 1886 [1885]. 8+604 p. 12°. (New York, Christern, \$1.35.)

Ratzel, F. Völkerkunde. Vol. I., lief. 1-10. Leipzig, Bibliographisches institut, 1885. 544 p., 10 pl., illustr. 4°. (New York, Westermann.)

Rauhfuss, E. Widerstand und maschinenleistung der dampfschiffe. Kiel, Lipsius & Tischer, 1886 [1885]. 60 p., illustr. 8°. (New York, Stechert, \$1.50.)

Ray, P. H. Report of the expedition to Point Barrow, Alaska. Washington, Government, 1885. 695 p., 20 pl., illustr., map. 4°.

Reclus, E. Pierre Kropotkin. Paroles d'un révolté. Nouvelle éd. Paris, Marpon, [1885.] 10+342 p. 16°. (New York, Christern, \$1.25.)

Rosny, L. de. Les romains d'orient aperçu de l'ethnographie de la roumanie. Paris, Maisonneuve, 1885. 140 p., illustr. 24°. (New York, Christern, 50 cents.)

Schmidt, C. The social results of early Christianity. Tr. by Mrs. Thorpe, with essay by R. W. Dale, LL.D. London, Isbister, 1885. 32+480 p. 12°. (New York, Scribner & Welford.)

Schwatka, F. Nimrod in the north. New York, Cassell, 1885. 8°.

Scudder, N. P. Bulletin of the U. S. national museum, No. 23. Bibliographies of American naturalists.—ii: The published writings of Isaac Lea, LL.D. Washington, Government, 1885. 60+278 p., portr. 8°.

Simon, G.-E. La cité chinoise. Paris, Nouvelle revue, 1885. 389 p. 16°. (New York, Christern, \$1.25.)

State boards of health, National conference of. Illinois, State board of health, 1885. 63 p. 8°.

Sunshine and sea: a yachting visit to the Channel Islands and coast of Brittany. London, Kegan Paul, Trench & Co., 1885. 266 p., illustr. 12°. (New York, Scribner & Welford.)

Svoboda, A. Kritische geschichte der ideale. Band I: Der seelewhahn. Leipzig, Grießen, 1886 [1885]. 680 p. 8°. (New York, Christern, \$4.60.)

Trouessart, E.-L. Les microbes, les fermentes, et les moisissures. Paris, Baillière, 1886 [1885]. 4+304+32 p., illustr. 8°. (New York, Christern, \$2.)

U. S. coast and geodetic survey. Report for 1884. Appendix No. 15. Methods and results, gravity research, use of the noddy for measuring the swaying of a pendulum support. Washington, Government, 1885. [8] p. 4°.

— The same. Appendix No. 16. Methods and results, gravity research, effect of the flexure of a pendulum upon its period of oscillation. Washington, Government, 1885. [3] p. 4°.

U. S. department of agriculture. Methods of analysis of commercial fertilizers. Washington, Government, 1885. 49 p. 8°.

U. S. geological survey. Bulletin No. 7. A catalogue of geological maps relative to North and South America. By J. and J. B. Marcou. Washington, Government, 1884. 184 p. 8°.

— Bulletin No. 8. On secondary enlargements of mineral fragments in certain rocks. By R. D. Irving and C. R. Van Hise. Washington, Government, 1884. 56 p., 6 pl., illustr. 8°.

— Bulletin No. 9. A report of work done in the Washington laboratory during the fiscal year 1883-84. By F. W. Clarke and T. M. Chatard. Washington, Government, 1884. 40 p. 8°.

— Bulletin No. 10. On the Cambrian faunas of North America. By C. D. Walcott. Washington, Government, 1884. 72 p., 9 pl. 8°.

— Bulletin No. 11. On the quaternary and recent Mollusca of the Great Basin, with descriptions of new forms. By G. K. Gilbert. Washington, Government, 1884. 66 p., 6 pl. 8°.

— Bulletin No. 12. A crystallographic study of the thiomite of Lake Lahontan. By E. S. Dana. Washington, Government, 1884. 34 p., 3 pl. 8°.

— Bulletin No. 13. Boundaries of the United States and of the several states and territories, with an historical sketch of the territorial changes. By H. Gannett. Washington, Government, 1885. 135 p. 8°.

— Bulletin No. 14. On the physical characteristics of the iron-carbures, etc. By C. Barus and V. Strouhal. Washington, Government, 1885. 237+6 p., illustr. 8°.

Vacquant, C., et Lepinay, A. M. de. Cours de trigonométrie. Paris, Masson, 1886 [1885]. 401 p., illustr. 8°. (New York, Christern, \$1.65.)

Vambery, A. Arminius Vambery, his life and adventures. London, Unwin, 1886 [1885]. 20+350 p., illustr. 12°. (New York, Scribner & Welford.)

Vincent, H. Mrs. Forty thousand miles over land and water. The journal of a tour through the British empire and America. Vols. I. and II. London, Sampson Low, 1885. 292, 266+32 p., illustr. 12°. (New York, Scribner & Welford.)

Wallace, A. R. Bad times. London, Macmillan, 1885. 8+18 p. 16°. 75 cents. (New York, Scribner & Welford.)

Warner, F. Physical expression: its modes and principles. New York, Appleton, 1886 [1885]. 20+372 p., illustr. 12°. \$1.75.

Wilder, B. G. Paronymy versus heteronymy as neuronic principles. Journ. nerv. ment. dis., xii., No. 3, 1885. 21 p. 8°.

Williams, G. H. A summary of progress in mineralogy and petrography, in 1885. Baltimore, Amer. nat., 1886 [1885]. [47] p. 8°.

Willson, R. W. Ein empfindliches galvanometer mit messbarem reductionsfaktor. Leipzig, Ann. phys. chem., 1885. [12] p. 12°.

Woodruff, T. M. Cold waves and their progress. A preliminary study. Washington, Signal office, 1885. 21 p. 8°.

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